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FTD-MT-63-329
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AEC Tr 2474

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APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000200890046-3

Deryagin, B. V. and Dukhin, S. S.
ON THE MOTION OF AEROSOL PARTICLES IN A DIFFUSION FIELD [O Dvizhenii Aerozol'nykh Chastits v Pole Diffuzii]. [1963] 9p 11refs
Order from OTS, SLA, or ETC $1.10 TT-64-10198

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1956, v. 106 [no. 5] p. 851-854. (Abstract available)
Another trans. is available from LC or SLA m.i $2.40, ph$3.30 as TT-61-15731, RTS-1742, Feb 61 [12p].

DESCRIPTORS: *Aerosols, Particles, Diffusion, Motion, Evaporation, Condensation

The forces acting on a drop in a homogeneous field are studied to clarify droplet behavior near surfaces at which evaporation or condensation occure. A first approximation of a theory is mathematically derived.
(Physics, TT, v. 11, no. 11) (over)

TT-64-10198

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TT-64-10198

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000200890046-3

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Assoc Tech Sv 61-17354
Tr No RJ-507
$5.80 ($1.40)

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Sci - Chemistry
Apr 1957 CTB/dex

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Kinetics of Multistage Separation Processes for Binary Mixtures. The Rate of Approach to Steady State Conditions, by S. I. Babkov and ~~Corr. Fellow Acad Sci USSR~~, N. M. Zhavoronkov, 5 pp.

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Babkov, S. I. and Yavoronkov, N. M.
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Order from OTS or SLA $1.60 61-23733

Trans. in French of Akad[emiya] Nauk SSSR. Dokl[ady] 1956, v. 106, no. 5, p. 877-880.

DESCRIPTORS: *Fractionation, *Mixtures, Separation, *Distilling plants.

(Engineering--Chemical, TT, v. 6, no. 6)

61-23733

I. Babkov, S. I.
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III. CEA-tr-R946
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Effect of Boron on Cereals when there is insufficient Moisture in the Soil at the Critical Period of their Development, by V. G. Rozhkova, F. D. Skazkin.
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The Relations Between Cross Sections for Multiple Pion Production, by N. V. Dushin, 4 pp.

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AU SUJET DE L'AUGMENTATION DE L'EFFICACITÉ DES THERMOCOUPLES DE SEMI CONDUCTEURS
(On Increasing the Efficiency of Semiconductor Thermocouples). 4p. 1ref. CNRS-X 404.
Order from OTS, ETC or CNRS $0.80 TT-62-28078

Trans. in French of Akademiya Nauk SSSR, Doklady, 1956, v.106, no.6, p.981.
A trans. is available in English from SLA as RT-4006, 2p.

DESCRIPTORS: *Semiconductors, *Thermocouples, *Crystal structure, Chemical elements.

TRANS in English: Amer Met Soc
DDC X-32
Sci Mus Lib 56/2074
HB 4075
SLA R 452
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Tech Sci Info Serv, DRB T 214R
AIP
Sov Phys-Tech
Vol I, No 1

(Physics--Solid State, TT, v. 11, no. 6)

TT-62-28078

I. Ioffe, A.F.
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An Analysis of Some Anomalous ϑ^{o}-Decays, by E. M. Fridlender, 5 pp.

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Synthesis of 1,4-Endomethylenespiro (5,5) Undecane, by N. V. Klagina, V. M. Brusnikina and B. A. Kazansky, 4 pp.

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The Mechanism of the RE Formation of Austenite During Fast Heating, by I. N. Kidin, 4 pp.

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The Mobility of Sulfur in the Methyl Ester of Diethyldithiocarbamic Acid and in Nickel Ethyl Xanthate, by I. I. Kukhtenko, L. E. Burtsev and G. P. Miklukhin. 4 pp.

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Isomeric Transformation of Xylenes over Aluminosilicates and Their Demethylation in the Presence of Benzene, by Yu. G. Mamedaliev, A. V. Topchiev, G. M. Mamedaliev, and G. M. Suleimanov, 3 pp.

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The Mechanism of Catalytic Polymerization of Unsaturated Compounds, by A. R. Gantmakher, S. S. Medvedev.

RUSSIAN, per, Doklady Ak Nauk SSSR, Vol. CVI, 1956, pp 1031-1034.

Assoc Tech Sv
$5.25 Tr RJ-815

Sci - Chemistry
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Efimov, E.A. and Izgaryshev, N.A.
SUR LE MECANISME D'ELECTRO-OXYDATION DE L'ACIDE SULFURIQUE EN ACIDE PERSULFURIQUE (Kinetic Study of the Sulfuric Acid Electrolytic Oxidation). 7p. 6refs. CNRS-VIII bis 731.
Order from OTS, ETC or CNRS $0.90 TT-62-26376

Trans. in French of Akademiya Nauk SSSR, Doklady, 1956, v.106, no.6, p.1039-1041.

DESCRIPTORS: *Sulfuric acid, Kinetic theory, *Oxidation, Electrochemistry.

(Chemistry--Physical, TT, v. 11, no. 6)

TT-62-26376

I. Efimov, E.A.
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III. CNRS-VIII bis 731
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Office of Technical Services
European Translations Centre

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The Acid-Base Mechanism of Adsorption on Silica Gel, by A. V. Kiselev, 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CVI, No 6, 1956, pp 1046-1049.

SLA 58-80

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The Determination of the Nickel-Electrode Capacity From the Drop in Potential After Turning Off the Polarizing Current, by V. E. Past, Z. A. Iofa.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 106, No 6, 1956, pp 1050-1052.
NASA TT F-11,672

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Intake and Distribution of Tracer Phosphorous by the Opium Poppy When Given Supplementary Food Other Than Through the [redacted] Roots, by V. V. Koperzhinsky, V. V. Sheberstou, 6 pp.

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The Chemical Mechanism of the Oxidation of Propane in the Gas Phase, by V. M. Byr'ko, et al.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CVIII, No 6, 1956, pp 1093-1095.

ATS RJ-1190

Sci - Chem
Apr 60

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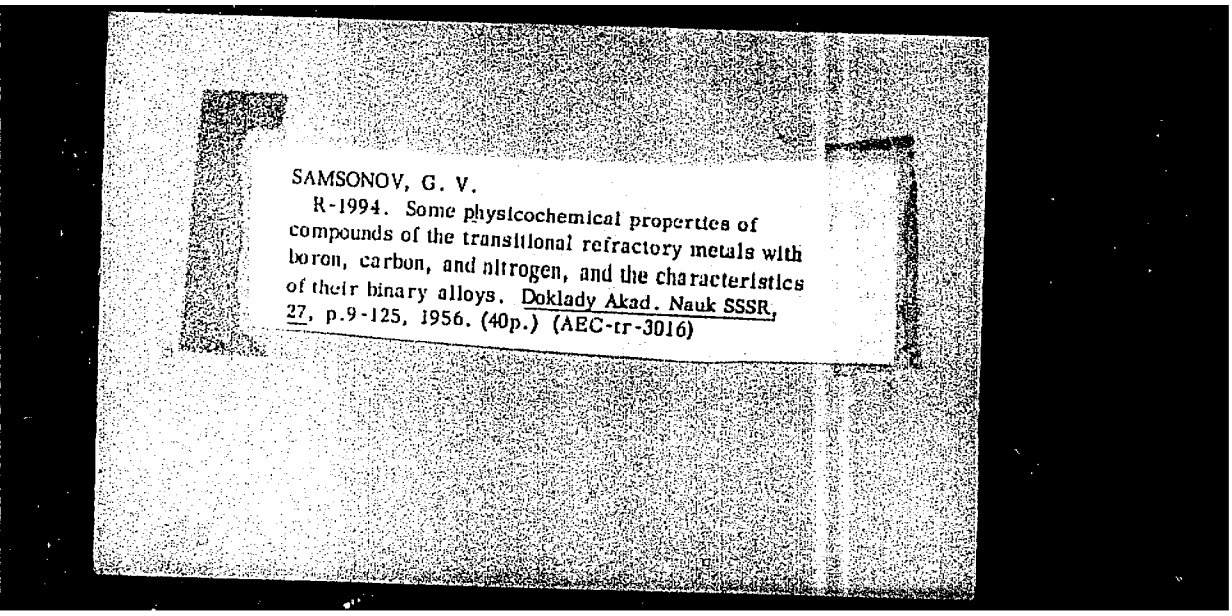

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R-1994. Some physicochemical properties of compounds of the transitional refractory metals with boron, carbon, and nitrogen, and the characteristics of their binary alloys. Doklady Akad. Nauk SSSR, 27, p.9-125, 1956. (40p.) (AEC-tr-3016)

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(MY-5591)

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JPRS 7587

Sci - Physics

Apr 61

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On the True Shape of X-Ray Spectra, by M. A. Blokhin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CVII, No 1, pp 33-[illegible]

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Sci - Phys

Aug 57

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On the Indirect Exchange Interaction, by S. V. Vonsovskiy, Yu. M. Seiydov, 3 pp.

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On the Impossibility of Explaining the Stability of Hyperons by Their Large Spin, I. I. Gurevich, 2 pp.

RUSSIAN, Dok Ak Nauk SSSR, Phys Sec, Vol CVII, No 1, pp 41-42

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The Interaction of 300 MEV π^--Mesons With Protons, Deuterons, and Nuclei in Nuclear Emulsions, by L. S. Dulkova, T. A. Romanova, I. B. Sokolova, L. V. Sukhov, D. K. Tolstoy, M. G. Shafronova, 4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSR, Vol CVII, 1956, pp 43-46.

AEC Tr 2492

Sci - Nuclear Physics

Jul 1956

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Axially Symmetric Electron Beams of a Given Shape, by V. T. Ovcharov, 4 pp.

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JAA 62-32639
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Sci - Phys

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Unusual V^0-Decay, by E. Friedlander, S. Bercea, 3 pp.

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AEC Tr 2491

Sci - Physics

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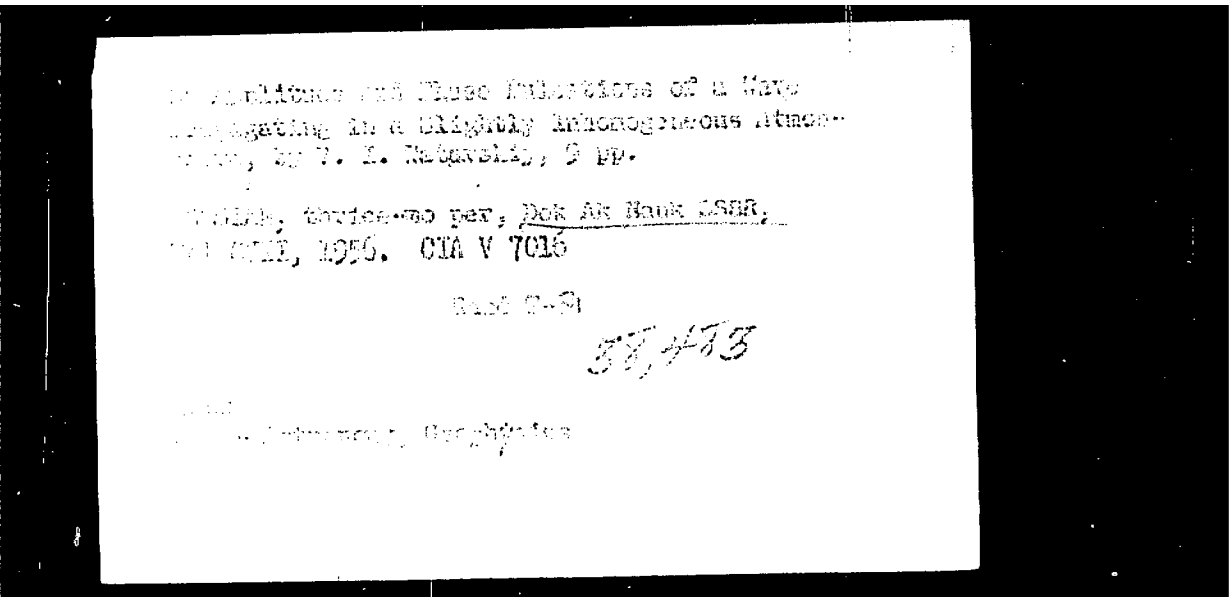

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Effect of Variable Flux of Positive Solar Particles on Ionospheric Wind.

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Ref: AF 1146222

Dir Sci Info Sv
DRB T 258R 57,389

Sci - Geophysics
Jan 58

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SLAA-928
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(CIA/X-2632)
FDD
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Sci - Physics
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Bond Energies and Heterogeneous Catalysts, by A. A. Balandin, 4 pp.

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61-17632

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The Rule of Auwers-Skita and the Properties of Stereoisomeric 1,4-Diisopropylcyclohexanes, by A. L. Liberman, T. V. Lapshina, and B. A. Kazansky, 4 pp.

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ELECTROCAPILLARY EFFECT OF HARDNESS REDUCTION AND OF EXTERNAL FRICTION OF METALS. [1962] 7p. 19 refs.
Order from OTS or SLA $1.10 62-16677

Trans. of Akademiya Nauk SSSR, Doklady, 1956, v. 107, p. 105-107.

DESCRIPTORS: *Metals, Friction, Hardness, Reduction, *Mechanical properties, Electrolytes, Electric potential, Electrical double layer, *Electrochemistry.

Values of potentials of the neutral charge on hard metals (in relation to the standard weight of electrolyte) are tabulated.

(Metallurgy, TT, v. 9, no. 4) (over)

RUSS/E to FRENCH
OTS TT-62-28578

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ACSIL 1033

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OTS 62-11373

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ACSIL Tr 954

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Continuous Mass Transfer in Rectification
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Zhebrak, A. R.
THE INFLUENCE OF GRAFTING ON SEED PROGENY AND ON THE SEGREGATION OF HYBRIDS IN THE SECOND GENERATION (Vliyanie Privivki na Semennoe Potomstvo i na Rasshcheplenie Gibridov Vtorom Pokolenii). 1961, 4p. 4 refs. PL-480 Agr. Order from OTS $0.50 60-51030

Trans. of Akademiya Nauk SSSR, Doklady, 1956, v. 107, no. 2, p. 325-327.

DESCRIPTORS: Reproduction, *Seeds, *Genetics, Nuclei (Biology), Tissues (Biology), Pollen

A thorough study was made of the seed generation from graft combinations of pure strains of pea, and of their hybrids. The grafting of constant (homozygous) lines had no influence whatsoever on hereditary characters; The degree of dominance or of recessiveness (Biological Sciences--Botony, TT, v. 7, no. 4) (over)

60-51030

I. Zhebrak, A. R.
II. PL-480 Agr (60-51030)
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SLA R-1344

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The Temperature Dependance of the Elastic Constants of Quartz, by V. G. Zubov, 2 pp.

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Vibrations of a Shallow Wing-Shell in a Gas Flow, by G. I. Kopzon, 6 pp.

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Natl Res Council TT-687
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SIA R-1620

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